INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/08942

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ D01F6/40, A41G3/00				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
Int.Cl ⁷ D01F6/38-6/40, A41G3/00, A61L27/00				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Jitsuyo Shinan Koho 1926—1996 Toroku Jitsuyo Shinan Koho 1994—2003 Kokai Jitsuyo Shinan Koho 1971—2003 Jitsuyo Shinan Toroku Koho 1996—2003				
Electropic d	ata base consulted during the international search (nam	e of data base and, where practicable, sear	rch terms used)	
WPI/L				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap		Relevant to claim No.	
A	WO 02/061187 A (KANEGAFUCHI	KAGAKU KOGYO KABUSHIKI	1-4	
	KAISHA),			
	08 August, 2002 (08.08.02), Abstract			
	& JP 2002-227018 A & JP	2002-315765 A		
A		GAKU KOGYO KABUSHIKI	1-4	
	KAISHA), 21 May, 1988 (21.05.88),			
	Claims & JP 63-290595 A & US	5083967 A		
A		AGAKU KOGYO KABUSHIKI	1-4	
	KAISHA), 14 January, 1985 (14.01.85),			
	Claims; page 2, column 3, lines 23 to 32			
	& JP 55-158322 A			
X Furth	er documents are listed in the continuation of Box C.	See patent family annex	-	
* Special	categories of cited documents: cut defining the general state of the art which is not	"I" later document published after the inte- priority date and not in conflict with the	is application but cited to	
considered to be of particular relevance understand the principle or theory understand invention cannot document of particular relevance; the claimed invention cannot document of particular relevance.			erlying the invention claimed invention cannot be	
date	ent which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered novel or cannot be considered for document is taken along	red to myorve an inventive	
"1" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"O" docum	nation (as specimen) and referring to an onal disclosure, use, exhibition or other	combined with one or more other such combination being obvious to a person	documents, such	
means "P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search 07 October, 2003 (07.10.03)		Date of mailing of the international search report 28 October, 2003 (28.10.03)		
Name and m	nailing address of the ISA/	Authorized officer		
Name and mailing eddress of the ISA/ Japanese Patent Office				
Facsimile No.		Telephone No.		

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/08942

	101/01	05/00512
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	· ·
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A .	JP 58-4809 A (KANEGAFUCHI KAGAKU KOGYO KABUSHIKI KAISHA), 12 January, 1983 (12.01.83), Claims (Family: none)	1-4
A	JP 56-63006 A (KANEGAFUCHI KAGAKU KOGYO KABUSHIKI KAISHA), 29 May, 1981 (29.05.81), Claims (Family: none)	1-4
A	JP 1-148806 A (KANEGAFUCHI KAGAKU KOGYO KABUSHIKI KAISHA), 12 June, 1989 (12.06.89), Claims; examples 1 to 4 (Family: none)	1-4

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

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<With Respect to Subject Matters for Search>

Claims 1-4 relate to acrylic synthetic fibers comprising an acrylic copolymer which includes acrylic copolymers widely varying in comonomers and copolymerization ratio. However, the acrylic copolymers which are supported by the description in the meaning of Article 6 of the PCT and are disclosed in the meaning of Article 5 of the PCT are limited to an extremely small part of the copolymers claimed.

Therefore, a search was made for the parts which are support by and disclosed in the description, i.e., fibers made of copolymers which have an acrylonitrile content of 60 mol% or higher and a content of sulfur atoms derived from a sulfo-containing vinyl monomer of 0.15 to 0.50 wt.% and for which the other monomer is a halogenated vinyl monomer.